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AN 133:62791 CA
TI Manufacture of **calcium silicate** shaped articles for
refractory, water-absorbing, and thermal **insulating** applications
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DT Patent
LA Korean
IC ICM C04B014-36
ICS C04B014-28
CC 58-6 (Cement, Concrete, and Related Building Materials)
Section cross-reference(s): 57
FAN.CNT 1

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AB The molded articles are manufd. by: (A) mixing **lime** and
siliceous material like **diatomaceous earth** in a
CaO/SiO₂ mole ratio of 0.8-1.8; (B) mixing above mixt. with water to
obtain raw material slurry; (C) heating the slurry at 80-1000 and 1 atm
into C-S-H gel slurry; (D) adding dild. water-glass to produce a mixed
slurry contg. amorphous **calcium silicate**; (E) adding
to the slurry reinforcing fibers 0.25-20 wt.%, followed by dewatering
under pressure and molding; and (F) curing, aging, and drying
successively
the molded product in a stack-type autoclave under the satd. steam
pressure at 170-2500. The dild. water glass contains less than 10% of
solid portion.
ST **calcium silicate** composite refractory thermal